

THE CHEMICAL ENGINEER INDEX 1989

1989 Nos 456-467

The Chemical Engineer
The Institution of Chemical Engineers
George E Davis Building
165-171 Railway Terrace
Rugby CV21 3HQ
UK

Key

(B) = book review

(L) = letter

(S) = software review

© Copyright: The Institution of Chemical Engineers 1989

Subject Index

A

A bow-wow at a venture Aug p31
AABB, biotechnology equipment opportunities survey Jun p13
ABB packaged instrumentation order Sep p62
Able Instruments, ultrasonic flowmeter Oct p19
Absorbent polyacrylate Nov p29
Acal Auriema, air velocity meter Oct p19
Accumatic, stainless steel filter Jan p45
Acetyls production plant, BP Chemicals Aug p7, (L) Oct p4
ACM Machinery, mixer scale-up Apr p66
mixers Aug p45
Acoustic emission technology Nov p29
Activated sludge process Jul p37
Actuator, electric Jul p44, Aug p56
half-inch May p61
Actuators Feb p25
Adept Scientific Micro Systems, scientific calculations May p60
AEA Technology, fluidic pump Dec p28
goes for the "leaner filter" look Sep p8
launch Jul p10
Aerobic effluent treatment Jun p93
After Babbage Jan p28
Agema, thermography Nov p59
Air heater Mar p26
Air Products, air separation plant for Didcot Jan p47
CIA safety gold award Sep p14
Good Environmental Management commendation Jun p7
minimising environmental impact Jul p33, (L) Sep p4
Air separation, short is beautiful Jul p33, (L) Sep p4
Airedale Sheet Metal, bulk liquid container May p61
Airlift reactors, design and diversity Feb p41
Albright & Wilson closes phosphorous furnaces Apr p69
Alcohol in Brazil May p48
Alfa Laval, Harry Faulkner interview Jan p40
cell centrifuge Aug p55
Flow-Flex heat exchanger Mar p25
to make plate heat exchangers in the US? Jan p13
Alfa-Laval Sharples, high temperature centrifuge Sep p59
goes for 10,000g centrifuge Jul p11
Allied Colloids, superabsorbent polymer Nov p29
Allison Engineering, flange safety shield Aug p56
valve cover Nov p59
Alpha instrumentation, thermocouple transducer cable Jan p44
Alpha Technical, fluidic pump Dec p28
Alpha Technical Services, hygienic blending system Nov p59
Altim Control, distributed control Aug p56
Alva-Laval, oil-slop treatment plant for USSR Jun p121
Alval, filter May p17
American National Standards (B) Feb p55
An Englishman's castle Oct p31

Analysar, sulphur, on-line Mar p57
Anglian Water, Ingersoll-Rand compressors for Feb p53
Another melody (L) Apr p4
Anyone for Currie? May p33, (L) Jul p6
Apollo Plastics Machinery, turbine flowmeter Oct p19
Appropriate Environmental Technology Award, Rupert Armstrong Evans Jun p7
APV, profit boost Jun p14
£7.5m contracts in Germany and Eastern Europe Nov p61
forms packaging machinery group Mar p61
Ardent, fluid dynamics software Mar p56
Ardent Computer, Titans for UMIST Jul p47
Are you sure? (L) Mar p4
Argonne chemistry offers deNO_x/SO_x solution Apr p30
Argonne National Laboratory, biodegradable plastics Oct p10
maglev transport Sep p34
Ariane, KDG supplying flowmeters Jan p47
Armstrong Evans, Rupert, Appropriate Environmental Technology Award Jun p7
Armstrong International, rotating disc valve Jul p45
Asea Brown Boveri, ozone from water Oct p32
Aspen Technology, pinch technology software Jul p44
process modelling software Apr p65
Assessing runaway reactions and sizing vents Aug p33
Aston University, Rolls Royce award Jan p14
AT&T to acquire Istel Nov p61
Atmosphere (L) Oct p4, (L) Dec p6
Auma Actuators, electric actuator Jul p44
Australia, ICI expands production Jan p46
Autodesk, AutoCAD May p60
Aztec Environmental Control, fish-based monitor Dec p52

B

B&R Industrial Automation, flexible PLC Jan p44
Babcock get the go-ahead on FGD plant for Drax Apr p10, (L) Jun p4
Bacteria in water Sep p24
Band filters (L) Mar p4
Bar codes, plastic Sep p59
BASEEFA equipment list Oct p11
BASF, 25 years of waste incineration Dec p10
Novolen polypropylene process Apr p32
earmarks Seal Sands for investment Oct p7
improves gas-phase propylene process Dec p12
Bayer, polyurethane substrate Jan p45
BCECA, contractors in period of rapid expansion Aug p9
Beautiful bubbles Dec p17
Bechtel, process industry modelling system Jul p44
Bekaert, filter May p22
Belgium, working in Nov p66
Belweighing Oct p25, (L) Dec p4
Bestobell Mobrey and KDG merge May p13
Bestobell, steam trap Jul p45
Bhopal payout to total \$470m May p11
Bhopal postscript Jun p4
BHRA oil and gas subsidiary for Aberdeen

Jan p46
Biggest ball-mill for Soviets Apr p70
Biochemical engineering, LINK programme Aug p8
Biodegradable plastics Oct p10
Biological filter, effluent treatment Jul p37
Bioreactor fluid dynamics, conference Jan p39
Bioreparation: downstream processing for biotechnology (B) Apr p77
Biotechnology, aerobic effluent treatment Jun p93, Jul p37
airlift reactors Feb p41
bioreactors fluid dynamics Jan p39
bioreparation: downstream processing for (B) Apr p77
safety Mar p13
Biotechnology equipment opportunities survey Jun p13
Biotechnology as history Apr p15
Biotechnology News Jan p45, Mar p56, Apr p66, Aug p55, Dec p51
Birmingham University, Centre for Biochemical Engineering opened Mar p11
Blacklive Engineering, flush ball valve Jan p45
powder sampling valve May p61
Blending system, hygienic Nov p59
Bio-Tech, wear-resistant bend Oct p63
Blue Chip Technology, computer Jul p44
IBM computer supplier Dec p51
industrial PS/2 Apr p65
BNFL, Pollution Abatement commendation Jun p7
Boiler water test Apr p65
Boliden Contech, incinerator filter Jan p29
Boll Filter, auto backwash filter Nov p59
John R Boone, mixers Aug p45
Boring holes (L) Nov p6
BP, contracts for Servelec Feb p52
HSE report on three accidents Jun p11, Aug p43
BP Chemicals, CIA safety gold award Sep p14
commissions DME store Jul p49
unveils new acetyls production unit Aug p7, (L) Oct p4
Bradley Engineering, tank specialist Aug p45
Bran+Luebbe, metering pumps for jelly babies Dec p12
near infrared analyser Aug p56
Brazil, alcohol in May p48
Brierley, Collier and Hartley Equipment, disc bottom valve Jan p45
Britain signs European fast breeder reactor agreement Apr p13
Britain's first nuclear power station shut down May p15
Britain's water ways Sep p24
British Gas, Good Environmental Management Award Jun p7
new chairman May p15
in R&D programme with Osaka Gas Feb p53
British Rema, fine grinding mill Aug p55
British Standards go with the flow Mar p21
British Technology Group, record payment for inventors from Aug p8
Bronzeplum UV Systems, uv disinfection Apr p66
Bruit & Kjaer, condition monitoring system Feb p50
low-cost condition monitoring Nov p59
Bryan Donkin, pressure safety valve Aug p27
BSI, Europe and 1992 dominate thinking Jan p14

BSI News Jan p14, Feb p12, Apr p15, May p14, Jun p13, Jul p10, Aug p12, Sep p11, Oct p11, Dec p14
BTG invests in Prosys Oct p7
Bubbles Dec p17
Buhler-Miag, mixing equipment Aug p45
BUL Systems, powder blender Aug p55
Bund for small storage tanks Apr p31
Burdosa, in-line mixer Jan p45
Burdosa, mixers Aug p45
Burkert, electric actuator Aug p56
Busch (UK), vacuum pumps: specialist production sparks demand May p45
Business interruption insurance Oct p52
Business Outlook Conference Mar p10
Business Woman of the Year, nominations Jan p14
Bürkert Contromatic, paddle wheel flowmeter Oct p19

C

CAD, drawing management Feb p30
CAD/CAM '89 Mar p48
Calculation sheet for a pressure safety valve for flashing liquid duty Oct p50
Calex, distributed control system Mar p57
Calex, mini controller Feb p51
Caloric, costs of hydrogen in plants Nov p29
Calorimeter, adiabatic May p60
reaction Sep p58
Calorimetry Aug p33
Capenhurst, water purification Sep p33
Carbon dioxide, super-critical, paint spray solvent Oct p33
Career breaks for personnel at ICI Apr p12
Career Perspective, career prospects for 1989 Mar p65, (L) May p6
contract engineer Apr p79
joys of being a sales engineer Sep p67
on being a sales engineer Jun p131
sales management in contracting Feb p56
working in Belgium Nov p66
working in Europe Aug p62
wrapped up in paper Jan p51
young academic views Jul p54
Caribbean methanol plant Aug p58
Cartels, on Apr p4
Castell, valve interlock Mar p57
Catalysis research, LINK programme Aug p8
Catalytic trust (L) Jul p6
Catalytic magic, EFCE colloquium Sep p55
Catch SO₂ (L) Mar p4
CBI, green plan launch Nov p13
productivity outstrips pay Feb p10
CeeFee, flow equipment division Dec p53
CEFC, chemical industry growth forecast Feb p12
environmental problem prize Jul p10
presidential attacks European fragmentation Aug p10
sustained growth in chemical industry Aug p9
Cellier, food processing installations Aug p45
Centre for the History of Chemistry Apr p12, (L) Jul p6
Centrifuge, 10,000g, from Alfa-Laval Sharples Jul p11
decanting Feb p51
handling mammalian cells Aug p55
high temperature Sep p59

vertical two-stage Oct p63
 Ceramic heat exchangers Apr p17
 Ceramics and new materials make running at Eurochem Jul p12 CFC alternatives, Du Pont patent Mar p14
 engineering data club needed says NEL Aug p12
 more toxicity testing Aug p12
 race gathers pace Jan p11
 CFCs, government action urged on recovery Mar p14
 CFCs, Stones in a glass house (B) Jan p49
 CHAM, fluid dynamics modelling, graphical CFD post processor Sep p59
 workstation Feb p50
 Changing atmosphere, ozone, holes and greenhouses Aug p14, (L) Oct p4, (L) Nov p6, (L) Dec p6
 Charlestown Engineering, filter May p17
 Chem-Plant Stainless, mixing vessels Aug p45
 Chemical Design, molecular modelling Jul p44
 Chemical engineering: introductory aspects (B) May p67
 Chemical engineering into aerobic effluent treatment: 1 Jun p33; 2 Jul p37
 Chemical engineering to the fore in two new IRCs Apr p14
 investment intentions May p12
 annual dinner Jan p10
 Business Outlook Conference Mar p10
 new chairman Jan p14
 Responsible Care launch May p10
 safe use of chemicals document Sep p14
 safety gold award Sep p14
 Chemical industry, 11% increase in graduate recruitment Feb p12
 CEFIC growth forecast Feb p12
 future of, is garbage Nov p17, (L) Dec p4
 Polish Sep p37
 polymer cartel lined Feb p9
 sustained growth says CEFIC Aug p9
 Chemical industry myths, shooting down more Dec p31
 Chemical Industry Young Person Award Jul p8
 Chemical sensors, laser Jul p30
 Chemical weapons Mar p44, (L) May p6
 Chemineer, high pressure heat exchanger Jul p45
 portable mixer Feb p51
 static mixer heat exchanger Sep p59
 Chemviron Carbon Europe, water treatment: nitrates, agrochemicals and all that May p42
 Chesterton, cartridge seal Feb p51
 ChoKe valve research agreement Dec p12
 Christmas Books Dec p55
 Christmas prize crossword Dec p7
 Ciba-Geigy gives an ear to environmental critics Jan p10
 Ciba-Geigy sees economy slow-down Sep p10
 CIMAH proposals Nov p15
 Circulating fluidised bed combustion Dec p32
 Clean Technology commendation, Haldor Topsøe Jun p7
 Cleaner technology: less modesty please Jun p3
 Cleaning in place system Mar p56
 Cloud dispersion and Pasquill weather stability categories Nov p51
 Coal tar distillation plant for Japan Mar p61
 Coating, for concrete Dec p51
 protective Aug p55
 "Cold" fusion—fact or fiction? May p13, Aug p10
 Columbia Scientific, hazardous release modelling Oct p63
 reaction calorimeter Sep p58
 Combined cycle, gasification Nov p35
 Combined deNO_x/deSO_x, "green" process Jul p29
 Combined NO_x/SO_x control Apr p30
 Combined NO_x/SO_x reduction Mar p40
 Combustion Engineering, turbine flowmeter Oct p19
 Combustion plant, large, control of NO_x emission Mar p33
 Coming to a halt Sep p31, (L) Oct p4, (L) Nov p6
 Compactor-granulator, pharmaceutical Jul p45
 CompAir Broomwade, compressor Sep p58
 Company, career and product management Jun p17
 Compressor, reciprocating, oil-free Aug p56
 screw Sep p58

two-stage diaphragm Dec p51
 Computer, graphics card Mar p56
 handheld, touch screens Nov p13
 with radio transmitter Jul p44
 intelligent interface Oct p63
 portable, acquisition Jul p44
 rack-mounting Jul p44
 world speed record Feb p23
 Computer control, operator friendly Apr p49
 Computer input devices Oct p42
 Computer News Jan p44, Feb p50, Mar p56, Apr p65, May p60, Jul p44, Sep p59, Oct p63, Dec p51
 Computer-to-analogue control system Aug p56
 CompuType, bar codes Sep p59
 Computation monitoring, low-cost Nov p59
 Condition monitoring system Feb p50
 Conductivity meter Nov p58
 Conferences, Bioreactor fluid dynamics Jan p39
 Desulphurisation in coal combustion systems Jun p111
 EFCE Jun p105
 Subsea separation and transport May p25, (L) Jul p6
 Toxic waste management and disposal Sep p13
 World Energy Conference 1989 Nov p32
 Conoco building DME plant at Humber side Jun p121
 Consilium, JIT scheduling Mar p56
 Container, bulk liquid May p61
 Contract engineer, the Apr p79
 Contract R&D from UKAEA Northern Laboratories Jan p12
 Contractors in period of rapid expansion says BCECA Aug p9
 Control, fieldbus goes to town Oct p45
 Control and instrumentation, instrumentation futures May p35
 Control News Jan p44, Feb p51, Mar p57, May p61, Jul p44, Aug p55, Sep p58, Oct p63, Nov p58, Dec p52
 Control of NO_x emission from large combustion plant Mar p33
 Control systems, process simulation, integration and control Sep p47
 Controller, batch and continuous May p61
 Controller, mini Feb p51
 Controlling our food and drink Apr p43
 Conveyor drum, spiral Nov p59
 Coping with toxic waste Nov p20, (L) Dec p6
 Corning Process Systems, glass: clear break in traditions May p42
 Corrosion, crevice corrosion Sep p41
 what every chemical engineer should know about stress cracking May p52, (L) Jul p4
 COSHH, gas monitors for Jul p11
 major step in occupation hygiene Feb p8
 need for employers to get priorities right Nov p14
 Cost of cheap water catching up with the UK Oct p10
 Costs of hydrogen in plants Nov p29
 Courtaulds Sulphur Chemicals plant on stream Mar p12
 Covair, oil-free compressor Aug p56
 Cracker, long residue, Shell Stanlow Nov p11
 Crane, explosion proof Sep p59
 Crane, new plant Jul p12
 John Crane, cartridge seal Jul p45
 double cartridge seal Dec p51
 CRB Filtration, filter May p17
 Cremer, Herbert, remembered (L) Apr p4
 Crest Process Engineering, hygienic pump Jan p45
 Crevice corrosion Sep p41
 Crosby Valve and Engineering, pressure safety valve Aug p27
 Crossword solution Feb p4
 Cubit, steam generator Apr p65

D
 Danfoss, electromagnetic flowmeter Oct p19
 flowmeter calibration rig Apr p14
 Darcy Products, reactor for electroplating effluent Aug p56
 Darenth, weight indicator Feb p51
 Dark side of the chemical industry Mar p44, (L) May p6

Davy Computing, plant design Sep p59
 Davy McKee, Caribbean methanol plant Aug p58
 Davy Research & Development, pilot plant facility opened Nov p12
 DCE, dust control Dec p52
 DCE Millstream, scientific word processor Feb p50
 Dechema, report on future of the chemical industry Aug p44
 Deep shaft sewage treatment Feb p53
 Delta merge Kenmac, Wade and Brownall May p64
 Department of Energy, offshore safety regulations proposed Sep p11
 Department of Trade and Industry, environmental enquiry point Nov p12
 funds underwater robots Feb p12
 materials matter report Oct p12
 Desalination and the nodding Salter Duck Feb p23
 Desulphurisation in coal combustion systems Jun p111
 Detronic, ultrasonic flowmeter Oct p19
 DeZurik, eccentric plug valve Sep p58
 Digitron, datalogger software Jul p44
 Display, pressure Aug p56
 Distributed control, Alcont system Aug p56
 system Mar p57, Sep p58
 Does your organisation need a psychiatrist Apr p29
 Dosapro Milton Roy, powder screw feeder May p61
 Dosing system, additive Sep p58
 Dounreay, electrochemical destruction of waste Aug p28
 Dow Chemicals, Waste Reduction Always Pays Jun p20
 Dr M, filter May p20
 Drawing management Feb p30
 Drawing on the move Feb p30
 Drax, Babcock get go-ahead for FGD plant Apr p10, (L) Jun p4
 Drift eliminators Feb p50
 Drying, freeze drying Dec p21
 Drying, understand your drying process and enhance productivity Jul p20
 Du Pont, new Telfons Aug p55
 patents CFC alternative Mar p14
 waste reduction Jun p19
 Dual pumping for no-flow protection Jun p35
 Durham University, integrated engineering course Sep p15
 Dust control, Sintamatic Dec p52
 Dust control booth Feb p51
 Dust explosions, venting requirements Jan p18

E
 Early returns from a toxic poll Jul p17
 Eberle, additive dosing system Sep p58
 Ecobal, CIP system Mar p56
 Edinburgh University, wave power and desalination Feb p23
 Education: the costly omission of multiphase flow Oct p3, (L) Dec p4
 Edwards & Jones, filter May p17
 EEMUA, offshore structure specs Sep p10
 tests for pressure vessel design software Feb p50
 EFCE, reaction engineering colloquium Sep p55
 Effluent treatment, aerobic: 1 Jun p33, 2 Jul p37
 Electricity, UK, gets highest price hike Jun p13
 Electrochemical destruction of organic waste Aug p28
 Electrolytic filter cleaning Aug p28
 Electronic data interchange Nov p12
 Electrophoretic coating Aug p29
 Ellis, valve interlock Mar p57
 Emergency, marine pollution response Sep p9
 Endress+Hauser celebrate 21 years in UK Nov p61
 mass flowmeter Feb p51
 pressure display Aug p56
 pressure transmitter May p61
 vortex-shedding flowmeter Oct p19
 Endress award for ICI Severnside May p14
 Energy recovery, site-wide studies Nov p54
 Energy saving, still a hot topic Jan p13
 Energy/Heat Transfer News Jan p44, Apr p65, May p60, Jul p45, Sep p59, Nov p59
 Engineering applications, teaching Mar p50

Engineering Council, Engineering Assembly Sep p15, (L) Nov p6
 salary survey Dec p13
 Young Engineer for Britain Award Oct p13
 Engineering mathematics (B) Oct p68
 Engineers and status (L) Nov p6
 Entecon, hammer mill Nov p59
 paddle mixer Aug p46
 "Environment means business", CBI green plan Nov p13
 Environmental Protection Subject Group, inaugural meeting Dec p11
 ESDU International, pressure vessel design software Feb p50
 Esso and Shell form Quadrant Gas Dec p54
 Estimating losses in the city Feb p36, (L) Jul p4
 Etching lithium niobate Aug p29
 Ethylene, Kellogg designs plant for Hyundai Jan p47
 Ethylene expansion in Brazil Apr p69
 Euro Technik, filter May p17
 Eurochem '89, ceramics and new materials make the running Jul p12
 Software & CAD at May p47
 Apr p58, May p35, preview Jun p47
 Eurofilitex, filter May p19
 Eurofilitex, Gauthier multi-plate filter Mar p57
 Europe and 1992 dominates BSI thinking Jan p14
 Europe, 1300 engineers apply for Eur Ing Mar p15
 Europe, British managers get average salaries Jan p15
 European Community, JOULE research cash Mar p11
 petrochemicals quota Feb p9
 polymer cartel lined Feb p9
 European Community and water Sep p24
 European fast breeder reactor, Britain signs agreement Apr p13
 European Federation of Chemical Engineering, assembly at Bad Aachen Jun p105
 European Perspective, Dechema report Aug p44
 European solids handling standards Mar p21
 European view of food irradiation Sep p3
 Eurotherm, instrumentation futures May p35
 Evans, Robert, new British Gas chairman May p15
 Evaporation technology, principles applications, economics Jul p53
 EVC enters plastics recycling Dec p10
 Evered, GRP structures Apr p66
 Exhibitions, CAD/CAM '89 Mar p48
 Eurochem '89 Apr p58, May p35, preview Jun p47
 Interflow '89, preview Oct p35
 Powtech '89, preview Feb p34
 PPMA, preview Sep p45
 Science into industry at Royal Society Jun p14
 Techmart Jan p14
 Expert system, crystallisation Feb p50
 vapour-liquid equilibrium Feb p24
 Expert system award announced Feb p11
 Explosion relief Dec p52
 Extract Technology, dust control booth Feb p51
 Extraction, liquid-liquid (B) Jan p49
 Exxon, new isobutylene plant Aug p59
 Exxon Chemical, Chemical Industry Young Person of the Year winner Jul p8

F
 Face to Face, Harry Faulkner of Alta-Laval Jan p40
 Farrey Industrial Ceramics, filter May p19
 Farrey Microfilitex, electrolytic filter cleaning Aug p28
 filter May p19
 Fat salary rises the exception rather than the rule Nov p15
 Faulkner, Harry, of Alta Laval, interview Jan p40
 Fawcett Christie Hydraulics, filter Mar p19
 Feeder, screw, horizontal Apr p65
 twin-screw Jul p45
 weigh, high accuracy Apr p65
 Ferrolfluid peristaltic pump Mar p26
 FGD, Babcock get go-ahead for Drax Apr p10, (L) Jun p4
 combined SO_x/NO_x control Apr p30
 control of NO_x from large combustion plant

Mar p33
fluidised bed combustion Dec p32
"green" deNO_x/deSO_x process Jul p29
Fieldbus goes to town Oct p45
Fieldbus trials planned Nov p58
Filter, agitated pressure nutsche Apr p66
auto backwash Nov p59
downflow sand Apr p66
incinerator, mercury Jan p29
multi-plate Mar p57
pressure May p17
PTFE membrane Jan p45
sintered stainless steel Jan p45
Filter cleaning, electrolytic Aug p28
Filter testing Aug p55
Filtration, band filters (L) Mar p4
Filtron, ultrafiltration system May p60
Finnistron, Sir Monty, at Engineering Assembly
Sep p15
Fire and the valve (L) Jan p4
Fisher Controls, PROVOXplus Sep p58
Flange safety shield Aug p56
FLARESIM, thermal radiation from flares
Nov p64
Flashing liquid duty, sizing pressure safety
valves for Oct p47
Flat rate expenses (L) Nov p6
Fleischmann, Martin, "cold" fusion May p13,
Aug p11
Flexbox, double cartridge seal Jul p45
Flexborough (L) Nov p6
Flooring, antistatic Aug p55
Flow indicator Aug p56
Flow laboratories, laminar airflow system
Mar p56
Flow measurement through orifice plate, NEL
formula Mar p25
Flow simulation, fluid dynamics modelling
Sep p59
Flow-Flex, heat exchanger Mar p25
Flowline Systems, electromagnetic flowmeter
Oct p19
water sampler Nov p58
Flowmeter, custody transfer Oct p22
electromagnetic Sep p58, Oct p19, p21, p22
magnetic Nov p58
mass, high temperature Dec p52
mass, improved Feb p51
mass, intrinsically safe Feb p51
orifice Oct p21
paddle wheel Oct p19
positive displacement Oct p22
turbine Oct p19, p21
ultrasonic Oct p19, p21
variable area Oct p21, p22
vortex-shedding Oct p19
Flowmeter calibration rig Apr p14
Flowmeters, volume Oct p17
Flowquip, flowmeter Oct p21
Flowsheeting, pumps in parallel, heater
shutdowns Mar p53
too many controls May p59
unintentional vacuums Sep p53
Flowtech, filter May p19
Flue gas analyser Aug p56
Flue gas cleaning, electrostatic plastic heat
exchanger Nov p30
Flue gas desulphurisation Jun p4
Flue gas kite (L) Feb p4
F T L Fluid Seals, PTFE gasket Oct p63
Fluidics, no-moving parts pump Dec p28
Fluidised bed combustion, SO_x and NO_x,
Dec p32
Fluids Handling News Jan p45, Feb p51, Mar
p57, May p61, Jul p45, Aug p56, Sep p58,
Oct p63, Dec p51
Flygt International, pumping optimisation
software Jan p29
Food irradiation, a European view Sep p3
Food irradiation Sep p17, (L) Oct p4
Food mixing Aug p45
Food process engineering and the public good
Apr p3
Forbes, new HQ Oct p65
Fortress Interlocks, valve interlock Mar p57
Fosroc, antistatic flooring Aug p55
Foster Wheeler lands Indonesian refinery
contract Dec p9
Foxboro, intelligent transmitter Feb p51
Free Literature Mar p62, Jun p123, Sep p66
Freeze drying Dec p21
Frost & Sullivan, biodegradable plastics Oct p10

growth areas in food processing Jan p15
Furnanite, valve cover Nov p59
Furnace management system Nov p58
Fusion—fact or fiction? May p13, Aug p10

G

Gas dispersion, estimating guide May p15
Gas prices, hidden increases in UK Dec p11
Gas treating, Hige Jan p35
Gas turbines for the process industries Feb p16
Gas-fired power station for Teesside Dec p54
Gasification combined cycle Nov p35
Gasket, PTFE kit Oct p63
PTFE non-deforming Oct p63
Gasohol in Brazil May p48
Gemu Valves, diaphragm valve Mar p56
General manager, new—confronting the key
challenge of today's organisation
Dec p57
Georgia Tech, fatigue prediction software
Mar p56
Gerber Foods expansion Jul p47
Gervase Instruments, orifice flowmeter Oct p21
Girdlestone, centrifugal pump Dec p51
Glass, a clear break in traditions May p42
Glass heat exchangers Apr p17
Glass lining, increased corrosion resistance
Nov p58
Glenvale Process and Packaging, homogenising
systems Aug p46
Global Maritime, offshore costing software
Jan p44
1988 Good year for chemical industry Mar p10
Good Environmental Management Award, Baxi
Partnership, British Gas and Air Products
Jun p7
W L Gore, Pollution Abatement Award Jun p7
protective coating Aug p55
PTFE gasket Oct p63
Government action urged on recovery of CFCs
Mar p14
Graduate shortage (L) Jul p6
Granherne, offshore costing software Jan p44
Graphite heat exchangers Apr p17
Graphite venturi devices Nov p59
Graseby Analytical, vapour monitor Jan p44
Great Lakes Chemical acquires most of Octel
Apr p70
Green vacuum pump Jun p36
Greenhouse effect, the changing atmosphere Aug
p14, (L) Oct p4, (L) Nov p6, (L) Dec p6
Greswell, pressure safety valve Aug p27
Growth area in food Jan p15
GRP structures Apr p66
Guinard, decanting centrifuge Feb p51

H

Haldor Topsoe, Clean Technology commendation
Jun p7
Hammer mill Nov p59
Hands on information Jan p23
Hartmann & Braun, bundled control system
Sep p58
pressure transmitter Jul p44
Harwell, electrophoretic separator given to
Science Museum Apr p15
expert system for crystallisation Feb p50
gas cyclone design software May p60
Harwell Computer Power, text retrieval software
Mar p56
Haslam, health and safety evaluation May p60
Hazard Evaluation Laboratory, adiabatic
calorimeter May p60
Hazardous solid waste, incineration of (B)
Oct p68
HAZOP-PC checklists Feb p50
Headbutting (L) Oct p4
Heat exchanger, bonded graphite Jan p44
electrostatic, plastic, for flue gas cleaning
Nov p30
Flow-Flex, Alfa-Laval Mar p25
high pressure Jul p45
Heat exchanger static mixer Sep p59
Heat exchangers: selection, design and
construction Jul p53
Heat exchangers, non-metallic Apr p17
Heat pumps and heat transformers Jul p43
Heat Trace, hose system Sep p58

trace heating Feb p50
Heat transfer, thermal fluid systems Dec p41
Heater shutdown Mar p53
Heenan Marley, drift eliminators Feb p50
Helix Conveyors, screw feeder Apr p65
Henkes, Evert, new Shell Chemicals md Mar p14
Hes-Tech, pneumatic powder handling Oct p33
Hessline, Michael, runs up the green ensign
Jan p10
Hige—a status report Jan p35
High performance materials IRC Apr p14
High-temperature superconductors for maglev
Sep p34
Higher rates may hit British industry May p15
Himont, Spheripol polypropylene process
Apr p32
Hindle Cockburns, what future for the ball valve?
May p37
HITECC success for women Feb p12
Hodge Stefield, oil interceptor Apr p66
Hoechst, record profits but not smooth sailing
Jun p9
Holbrook Engineering, agitated pressure nutsche
filter Apr p66
Honeywell, system enhancement and support
programme Dec p52
Hose trace heating system Sep p58
Hosokawa Micron Europe, sanitary mixer
Sep p59
Hotwork Development, air heater Mar p26
How to ask for a pay rise and promotion, 1 self-
assessment Oct p59
2 asking for a pay rise Nov p56
How to get the best out of older staff Jan p43
younger staff Mar p55
your peers Apr p63
How to run a local campaign (B) Dec p57
How to write for professional journals (B)
Feb p55
HSC, CIMAH proposals Nov p15
launch of COSHH regulations Feb p8
noise regulations Nov p14
proposed amendments to packing regulations
Jan p13
HSE, annual report Feb p10
HSE, estimating gas dispersion guide May p15
human error a common element in BP
incidents Jun p11
human factors in industrial safety May p11
hydrogen peroxide report Mar p14
need for employers to get COSHH priorities
right Nov p14
Quantified Risk Assessment Sep p10
HSE wants feedback on planning Jun p11
Hughes, safety shower updated Sep p59
Human factors and decision making: their
influence of safety and reliability (B)
Jun p129
Human factors in industrial safety May p11
Hycon plant, Shell, Netherlands Nov p11
Hydrate dispute (L) Jul p6
Hydrates in gas/oil systems May p25, (L) Jul p6
Hydrogen peroxide report from HSE Mar p14
Hydrogen recovery, membrane system Dec p29
Hydrogen for waste reduction Nov p30
Hyundai, Kellogg designs ethylene plant Jan p47

I

IBS-Radix, intrinsically safe hand-held computer
May p60
ICC, variable area flowmeter Oct p21
ICE Engineering, turbine flowmeter Oct p21
ICI, annual safety award for contractors May p9
career breaks for personnel Apr p12
Chemical Engineering Fellows Oct p11
deputy chairman elected CIA chairman
Jan p14
evaporator from Sulzer Sep p62
Far East chloralkali membrane orders Mar p59
licenses ammonia technology Aug p59
PTA plant in Taiwan Aug p58
record half-year profits Sep p8
Sewerside lifts Endress award May p14
strong profit growth in 1988 Mar p11
sulphuric acid recovery plant Aug p9
ICI expands production in Australia Jan p46
ICI Industrial Software Products, piping design
Apr p65
ICI to acquire Avalon Chemical Jul p47
ICS Bailey Controls, boiler performance software

Dec p52
control extras Mar p57
IMCA Marine & Industrial, liquid tarpaulin
Jul p45
Immediate Business Systems, hand-held
computer with radio transmitter Jul p44
In perspective, coping with toxic waste Nov p20,
(L) Dec p6
Incineration of municipal and hazardous solid
waste (B) Oct p68
Induction dryer Jan p30
Industrial Computer Source, rack-mounting
computer Jul p44
Industrial Data Processing, portable acquisition
computer Jul p44
industrial disruption (L) Jul p6
Industrial health and safety, 1988 not a
satisfactory year Feb p10
Industrial Software Products, piping design
package Feb p50
Info Bulk Control Systems, belt weigher warning
Feb p51
weighing, proportioning and control system
Nov p59
Ingersoll-Rand compressors for Anglian Water
Feb p53
Input devices, computer Oct p42
Institution of Chemical Engineers, ICI
Fellowships Oct p11
Insulation, foamed glass Jul p45
Insurance, business interruption Oct p52
Integrated engineering degree course Sep p15
Integrated waste management Jun p25
Interflow '89 preview Oct p35
Intergraph, 3D CAD Jul p44
International Network Services, electronic data
interchange Nov p12
International Paint, concrete coating Dec p51
Introductory mathematics through science
applications (B) Oct p68
Investment forecast for the chemical industry
May p12
IOI loss estimation Feb p36, (L) Jul p4
Ionics, water sampler Nov p58
IRC, engineering design for Glasgow Feb p11
Irradiation of food Sep p17, (L) Oct p4
Isobutylene plant, Exxon Aug p59
Istel, manufacturing resource planning system
Jul p44
production schedule simulator Mar p56
ITK Lufttechnik, explosion relief Dec p52

J

Jencons, variable area flowmeter Oct p21
Jimi-Heat, heat tracing Feb p50
Joints, clamped Jan p45
Joule research cash from European Community
Mar p11
Journals, how to write for professional (B)
Feb p55
Joys of being a sales engineer Sep p67
JIPIPE, a tool for piping design (S) Jul p53

K

Kalsep, membranes: very rosy prospects
May p37
Kane-Kay, pressure gauge Oct p63
KDG supplying flowmeters for Ariane Jan p47
Kecol Pumps, progressive cavity pump May p61
Kellogg designing ethylene plant for Hyundai
Jan p47
Kemutec, mixers Apr p46
Kenmac, Wade and Brownall merge May p64
Kent Industrial Measurements, electromagnetic
flowmeter Oct p21
Keystone, pressure safety valve Aug p27
KHD, filter May p20
Knimesh, separation technology: stepping up
design techniques May p41
Kraus-Maffei/Okawa licence deal Feb p52
Krupp, centrifuge Oct p63

L

LA Law, proposition 65 Mar p17
Laboratory of the Government Chemist move
Mar p14

Laminar airflow system Mar p56
Land Infrared, radiation thermometer Jan p44
Landfill, environmental policy Oct p12
Laporte, centenary window Jan p13
Princess unveils Rose Window Nov p14
buys Terechem of Canada Feb p52
Larox, filter May p20
Laser, chemical sensors Jul p30
chemically powered Jun p36
Le Carbone, carbon microfiltration membrane
launch Nov p13
Leadership—challenges for today's manager (B)
Dec p55
Leak detection, pipeline Jun p39
Levenspiel, Octave Jan p16
Light bulb, high efficiency Nov p35
Limestone for FGD (L) Mar p4
LINK, £13m for sensors and measurement
programmes Dec p13
biochemical engineering & catalysis research
Aug p8
structural composites and high speed
machinery Jul p10
Lippner, Heini, Ciba-Geigy chairman Jan p10
Liquid tarpaulin Jul p45
Liquid-liquid extraction (B) Jan p49
Listening pays Nov p29
Lithium niobate, etching Aug p29
Litre Meter, flow indicator Aug p56
Loadcell, approved Apr p65
Lodematic, volumetric tippler Dec p51
Loss estimation Feb p36, (L) Jul p4, (L) Nov p6
Low NO_x burners Mar p35
Lubricants, solid, for ceramics May p29
Lummus Crest, ALMA process for Korea Sep
p63
Lummus Crest completes Brazilian ethylene
plant Apr p69

M

3M, oil sorbent Feb p50
Pollution Prevention Pays (3P) Jun p16
McCaan-Erikson, young people survey Jul p9,
(L) Sep p4
Magnetic levitation transport Sep p34
Magnex Scientific, joint venture with Japan Nov
p52
Manage change or go bust Jun p112
Management Page, company, career and product
management Jun p117
equal opportunities Sep p57
how to ask for a pay rise and promotion,
1 self-assessment Oct p59,
2 asking for a rise Nov p56
how to get the best out of older staff Jan p43
how to get the best out of younger staff Mar
p55
how to get the best out of your peers Apr p63
performance audit Jul p51
total quality management Aug p50
underdogmanship Dec p49
Marine pollution response Sep p9
Marsham, Tom, appreciation Dec p15
Masonite, pressure safety valve Aug p27
Masonite opens new test centre May p64
Mass flowmeter consortium at NEL Feb p12
MASSBAL process simulator (S) Jun p127
Materials, safety of liquid carbon dioxide storage
vessels Jun p29
Materials matter, DTI report Oct p12
goes mobile Dec p14
Materials News Apr p66, Aug p55, Nov p58, Dec
p51
Mathematical tourist—snapshots of modern
mathematics (B) Dec p56
Mathematics, engineering (B) Oct p68
Mathematics, introductory, through science
applications (B) Oct p68
MathSoft, mathematical analysis software Jul
p44
Mechanical News Feb p50, Sep p59, Nov p59
Mechanical seal practice for improved
performance (B) Mar p64
MEDAL for hydrogen recovery Dec p29
Meller, George, flowmeters Oct p21
Membrane, crossflow May p60
Membrane processes (B) Jun p129
Membranes, very risky prospects May p38
Memtech, tube joints Mar p56
Mercury, incinerator filter Jan p29

Metals in the service of man (B) Dec p56
Micro Motion, mass flowmeter Feb p51
Microbial answer for wastes Dec p11
Microcomputer applications in safety
management (B) Aug p61
Microfiltration, carbon membrane launch
Nov p13
Micronics, data logger Oct p22
Mill, fine grinding Aug p55
Mixer, high speed Apr p66
in-line loop Jan p45
pharmaceutical Mar p57
portable, direct drive Feb p51
sanitary Sep p59
scale-up Apr p66
static Apr p66
Mixers, trends in high shear mixing May p44
Mixers Aug p45
Mixing, modelling complex problems Apr p53
Mixing in food and drink Aug p45
Modelling complex mixing problems Apr p53
Modern applied energy conservation: new
directions in energy conservation and
management (B) Apr p77
Molecular modelling Jul p44
Monitor, vibration Jul p44
water, fish-based Dec p52
More cold air (L) Oct p4
Moreau, after Babbage Jan p28
an Englishman's castle Oct p31
another melody (L) Apr p4
a bow-wow at a venture Aug p31
coming to a halt Sep p31, (L) Oct p4, (L)
Nov p6
on corporate madness Apr p29
on diet May p33, (L) Jul p6
pollution and the Pompidou centre Jun p33
divine melodious truth Feb p22, (L) Apr p4
on insurance Mar p29
the quality of mercy is expensive Jul p27
stop thief Nov p27
white and red cross Dec p27
Morris, Dick, NIREX chairman Oct p11
Morstan Fluid Mixers, agitation equipment
Aug p46
Morton Machines, food mixers Aug p46
Motor, soft starter, May p61, Oct p63
MSP Plant, Teflon sight gauge Mar p56
Multiphase flow, education: the costly omission
of Oct p3, (L) Dec p4
Multiphase pumping May p27
Multipurpose reactor for Phillips Dec p9

N

Nash Kinema, steam ejector Sep p58
National Engineering Laboratory, privatisation
shelved Jan p11
National Power, policy Oct p14
Natural gas: basic science and technology (B)
Aug p61
Negretti Automation, controller May p61
SCADA Jan p44
NEL, CFC alternatives, engineering data club
needed Aug p12
flowmeter calibration Oct p22
formula for measuring gas flow through orifice
meters Mar p25, May p6
mass flowmeter consortium Feb p12
to become limited company Jul p11
Neotronics, gas monitors for COSHH Jul p11
Neu dust extraction system for Michelin
Jun p121
Neu Engineering, high accuracy weigh feeder
Apr p65
Neu installs turnkey agrochemical facility
Dec p54
New frontiers, European style Aug p44
Newcastle University, VLE expert system Feb p24
Newell Dunford, induction dryer Jan p30
New general manager—confronting the key
challenge of today's organisation (B)
Dec p57
NIFES, maintenance on offshore platforms
software Apr p65
Nilfisk, vacuum cleaner Jul p45
NIREX chairman, Dick Morris Oct p11
Niro Atomizer, ultrafiltration membrane Dec p51
acquires Aeromatic Jul p119
Nitrates in water Sep p24
Nitrogen injection (L) Sep p4

Nixon Instrumentation, variable area flowmeter
Oct p22
No-flow protection for pumps Jun p35
Noise regulations Nov p14
Nomographs, weak dust explosions Jan p18
Non-metallic heat exchangers Apr p17
Northvale Korting, control valve Feb p51
Norton, packed tower design software Feb p50
Nottingham University, integrated engineering
course Sep p15
NO_x, ozone, hydrocarbons and a little
photochemistry Mar p35
NO_x emission, control of, from large combustion
plant Mar p33
Nuclear industry, modelling mixing problems
Apr p53
Nuclear power station, Britain's first, shut down
May p15
Nuclear reactor, Britain signs European fast
breeder agreement Apr p13
Nuclear reprocessing, German deal Sep p10
Nucleus, Dexterity SCADA on Modcomp
Nov p58
SCADA Jan p44
NUS, decrease in UK gas prices hides large
increase Dec p11
UK electricity prices Jun p13
NUS training—maximum training Sep p64

O
OBS Machines, high speed mixer Apr p66
Octel, 51% sold to Great Lakes Chemical Apr
p70
Offshore safety regulations proposed by DoE Sep
p11
Offshore structures, specifications Sep p10
Offshore technology, Oslo conference May p25,
(L) Jul p6
setting up sub-sea separation Jan p31
subsea three-phase meter May p29
Oil and gas, BHRa subsidiary for Aberdeen Jan
p46
Oil interceptor Apr p66
Oil sorbent Feb p50
Older staff, how to get the best out of Jan p43
Olympus-KIMI, from borescopes to CCDs
May p37
Open University, Centre for the History of
Chemistry Apr p12, (L) Jul p6
Operator friendly computer control systems
Apr p49
Optical and laser-related science and technology
IRC Apr p14
Optimis, cost optimisation software Apr p15
engineering cost/benefit analysis Mar p56
Optimising pumping performance Jan p29
Osaka Gas in R&D programme with British Gas
Feb p53
Ozone, NO_x, hydrocarbons and a little
photochemistry Mar p35
Ozone depletion, the changing atmosphere
Aug p14, (L) Oct p4, (L) Nov p6, (L)
Dec p6
Ozone friendly race gathers pace Jan p11
Ozone from water Oct p32
Ozone and UV purifying power Sep p33

P

P-E Inbucon, European salary survey Aug p10
international salaries Jan p15
UK salary survey Nov p15
PA Consulting, materials matter report Oct p12
Pannevis, filter May p20
Paper industry, career perspective Jan p51
Particle attrition user guide Sep p11
Passquill weather stability categories and cloud
dispersion Nov p51
PCIL, workstation software Jan p44
Peabody-Holmes and W&E Environmental of
Zurich form alliance Jul p49
Peers, how to get the best out of your Apr p63
PEMA and PPMA merge Aug p11
Performance auditing Jul p51
Personal View: stirred reactors—facts or fiction?
Apr p73
PES Controls, hygienic control valve Dec p51
PES expert system for HSE guidelines Jul p8
Pesticides in water Sep p24

Petrochemicals quota disappoints SABIC Feb
p9, (L) Apr p4
Paudler-Balfour expands in File Sep p63
new glass lining Nov p58
Pharmatch Equipment, butterfly valve Apr p66
Phillips, process control system May p61
Phillips, multipurpose reactor Dec p9
Pipeline fittings, confronting Eurobump
May p35
Pipeline leak detection Jun p39
Piping, wear-resistant bend Oct p63
Pittsburgh Corning, foamed glass insulation
Jul p45
Plastic heat exchanger, electrostatic, flue gas
cleaning Nov p30
Plastic heat exchangers Apr p17
Plastic recycling in Sheffield Jul p10
Plastics Design and Engineering, polypropylene
scrubbing tower Mar p59
Plastics feedstock from potato peelings Oct p10
PLC, flexible Jan p44
PLC safety monitor Sep p58
Pneumatic power handling Oct p33
Poel, engineer, process engineering and (L)
May p6
Polish chemical industry Sep p37
Pollution, bund for small storage tanks Apr p31
Pollution, marine, emergency response Sep p9
Pollution Abatement Award, W L Gore and BNFL
Jun p7
Pollution Inspectorate (L) Mar p4
Pollution is waste Jun p16
Pollution and the Pompidou centre Jun p33
Pollution service insight (L) Feb p4
Polymer cartel fined by EC Feb p9
Polymer science and technology IRC Apr p14
Polypropylene—still forging ahead Apr p32
Pons, Stanley, "cold" fusion May p13, Aug p11
Potato peelings for plastics feedstock Oct p10
Powder blender Aug p55
Powder handling, pneumatic Oct p33
Power companies make their pitch Oct p14
Power fluidics choke valve research agreement
Dec p12
PowerGen, policy Oct p14
Powtech '89 Feb p34
Powtech, mixers Aug p46
twin-screw feeder Jul p45
PPMA education Sep p45
PPMA and PEMA merge Aug p11
Pressure filters May p17, (L) Jul p4
Pressure gauge, handheld Oct p63
Pressure Products Industries, compressor
Dec p51
Pressure safety valves Aug p27
Pressure safety valves for gas duty, sizing
Aug p21
Pressure transmitter May p61
Pressurised fluidised bed combustion Dec p32
Price of progress Aug p3, (L) Sep p4
Primatch, HAZOP-PC checklists Feb p50
Privatisation, shelved for NEL Jan p11
Privatisation, water (L) Jan p4
Problems in Brazil May p50
Process control, in the food industry Apr p43
Process control system May p61
Process engineering and the engineer poet (L)
May p6
Process modification and materials substitution
Jun p23
Process simulation, integration and
control—challenges and responses
Sep p47
Process simulation, integration and control IRC
Apr p14
Product innovation: idea to exploitation (B)
Sep p65
Productivity outstrips pay says CBI Feb p10
Programmable controller Feb p51
Promoting waste prevention (L) Dec p6
Prosys, PSA simulator Feb p50
Speedup/Aspen plus interface Oct p63
Protech monitors for Shell cat cracker Dec p53
Provesten, single cell protein Nov p44
PROVOXplus, extended version of PROVOX
Sep p58
Pruteen, single cell protein Nov p44
PSM Flow, pilot flow sensor Oct p22
Pulsatile flow bring energy saving to crossflow
ultrafiltration Jul p30
Pump, centrifugal, history and future Nov p37
hygienic Jan p45

self-priming Dec p51
 diaphragm, air-operated Feb p51
 helical rotor Aug p56
 improved Nov p59
 materials Nov p39
 multiphase Nov p39
 no moving parts Dec p28
 no-flow protection Jun p35
 optimising performance Jan p29
 peristaltic, ferrofluid Mar p26
 positive displacement, Sine May p30
 progressive cavity, hygienic May p61
 vacuum, "green" Jun p36
 variable speed Nov p39
 Pump & Package, motionless mixers Aug p46
 static mixers Apr p66
 Pump buyer's guide Jun p13
 Pump shutdown Feb p14
 Pumps, vacuum, specialist production sparks demand May p45
 Pumps in parallel Mar p53
 Purite, water purifier Apr p66
 Putsch, filter May p22

Q
 Quadrant Gas formed by Shell and Esso Dec p54
 Quality of mercy is expensive Jul p27
 Quality and safety, distant cousins or close relatives? Jun p97, (L) Aug p4
 Quantified Risk Assessment, HSE paper Sep p10
 Queen's green speech Dec p3
 Quorn, single cell protein Nov p44

R
 Radiation thermometer Jan p44
 Radio telemetry network Dec p52
 Rank Taylor Hobson, thermography system Dec p52
 Rasterex, hi-res AutoCAD Mar p56
 Rauma Repola supplies biggest ball-mills to Russia Apr p70
 Reaction calorimeter Sep p58
 Reaction engineering EFCE colloquium Sep p55
 Reactor for electropolymerising Aug p56
 Record payments for inventors from BTG Aug p8
 Recorder, sequential events Feb p51
 Recruitment, 11% increase for chemical industry Feb p12
 Recycling forum Nov p12
 Recycling plastics, EVC enters Dec p10
 Remote visual inspection, from borescopes to CCDs May p37
 Resources Conservation and Recovery Act Amendment Jun p20
 Responsible Care, CIA, launch May p10
 Restbury International, PLC safety monitor Sep p58
 Revere Transducers, approved loadcell Apr p65
 Reviews in coal science, the problems of sulphur (B) Nov p65
 Rhodes, positive displacement flowmeter Oct p22
 Rhopoint, computer-to-analogue control system Aug p56
 Rhône-Poulenc, Dagenham plant opened Jul p49
 expanding in specialty chemicals Nov p62
 sodamide production in Norwich May p63
 Risk, what is it? Nov p50
 Risk quantification, bane or blessing Nov p50
 Robert Jenkins Systems, graphite venturi devices Nov p59
 Rolls Royce award for Aston University Jan p14
 Rolls Royce MatEval, vibration monitor Jul p44
 Rosemount, conductivity meter Nov p58
 electromagnetic flowmeter Sep p58
 fieldbuis trials planned Nov p58
 high temperature mass flow meter Dec p52
 smart transmitter for mass flowmeter Mar p57
 variable area flowmeter Oct p22
 Rospen Industries, beltweighing Oct p25, (L) Dec p4
 modular weighing Apr p65
 Rossi, Sir Hugh, "Britain needs an EPA" Sep p13
 Rotek, induction dryer Jan p30
 Royal Society, "Science into industry" Jun p14
 Rubbish and landfill (L) Dec p4
 Runaway reactions, assessing, and sizing vents Aug p33

Runaway reactions pursued May p14

S
 SABIC disappointed by EC quota Feb p9
 Sabre Instrument Valves, needle valve Dec p51
 Safe handling of chemicals in industry (B) Sep p65
 Safety and the human factor May p11
 Safety in large-scale biotechnology Mar p13
 Safety of liquid carbon dioxide storage vessels Jun p29
 Safety management, microcomputer applications in (B) Aug p61
 Safety management of process plant software Aug p58
 Safety shower updated Sep p59
 Safety valves, pressure, sizing for flashing liquid duty Oct p47
 Saltronics, motor soft starter May p61, Oct p63
 Sahut-Conreux, compactor-granulator Jul p45
 Salary comparisons (L) Jun p4
 Salary survey, British managers average in Europe Jan p15
 Engineering Council Dec p13
 European managers Aug p10
 UK, P-E Inbucon Nov p15
 Sales engineer, on being a Jun p131
 the joys of being a Sep p67
 Sales management in contracting Feb p56
 Sandia National Laboratories, detoxification of water Sep p34
 electrophoretic coating Aug p29
 etching lithium niobate Aug p29
 Sandvik Steel, multipurpose duplex steel Apr p66
 ultra-clean tubes Apr p66
 Sartorius, membrane filter integrity tester Aug p55
 pilot-plant mixers Aug p48
 SattControl, programmable controller Feb p51
 SCADA Jan p44
 SCADA Systems, radio telemetry network Dec p52
 Scrambled eggs (L) Jul p6
 Scandinavian PC Systems, text analysis software Feb p50
 Schlumberger, custody transfer instrumentation Oct p22
 universal gateway Jan p44
 "Science into industry" at the Royal Society Jun p14
 Scion Energy, safety management of process plant software Aug p58
 Scotsmen (L) Nov p6
 Screw feeder, powder May p61
 Scrubbing tower, polypropylene Mar p59
 Seal, cartridge, for water and sewage Jul p45
 cartridge Feb p51
 double cartridge, Jul p45, Dec p51
 Seal Sands earmarked for investment by BASF Oct p7
 Sealant, PTFE Jan p45
 Seetru, pressure safety valve Aug p27
 Separation, sub-sea Jan p31
 Separation & Mixing News Jan p45, Mar p57, Apr p66, May p60, Aug p55, Oct p63, Dec p52
 Separation technology, stepping up design techniques May p41
 SERC, annual report Feb p11
 cleaner processes working group Nov p11
 engineering design IRC for Glasgow Feb p11
 IRCs Apr p14
 second corporate plan launched Mar p11
 E31m for three IRCs Aug p9
 Serendipity—accidental discoveries in science (B) Dec p58
 Servelec, wins BP contracts Feb p52
 Shanks & McEwan, environmental policy Oct p12
 Shell chemicals, new managing director Mar p14
 Shell and Esso form Quadrant Gas Dec p54
 Shell Stanlow, new long residue cracker Nov p11
 Shell UK profits plummet May p63
 Shooting down more chemical industry myths Dec p31
 Short is beautiful Jul p33, (L) Sep p4
 Short Story Slot, a successful failure Dec p4
 company hand-out Dec p4
 my very good friends Oct p4

new frontiers Oct p4
 the latest wonder Sep p4
 Siemens, SCADA Jan p44
 Sight gauge, Teflon Mar p56
 Sigri, bonded graphite heat exchanger Jan p44
 SIHI Pumps, helical rotor pump Aug p56
 pump revamped Nov p59
 Sillaford, filter May p22
 Silverson Machines, mixers Aug p48
 trends in high shear mixing May p44
 Simon-Hartley, sand filter Apr p66
 SimSci, process simulator Jul p44
 Sine pump May p30
 Single cell protein ventures Nov p44
 Sizing pressure safety valves for flashing liquid duty Oct p47
 Sizing pressure safety valves for gas duty Aug p21
 Sizing vents and assessing runaway reactions Aug p33
 SnO_2 , the "green", no-waste, $\text{deNO}_x/\text{deSO}_x$, process Jul p29
 Sod the engineer (L) Sep p4
 Sodamide, Rhône-Poulenc plant in Norwich May p63
 Software, 3D CAD Jul p44
 AutoCAD Release 10 May p60
 boiler, turbine and condenser performance Dec p52
 chemical equilibrium Dec p51
 contaminant mapping Sep p59
 cost optimisation Apr p15
 costing offshore production systems Jan p44
 datalogger Jul p44
 design environment May p60
 Dexterity SCADA on Modcomp Nov p58
 document preparation May p60
 dynamic modelling of slug flow May p60
 engineering cost/benefit analysis Mar p56
 equation solver May p60
 expert system for crystallisation Feb p50
 fatigue prediction Mar p56
 fluid dynamics Mar p56
 fluid dynamics modelling, graphical CFD post processor Sep p59
 fluid dynamics modelling Sep p59
 gas cyclone design May p60
 hazardous release modelling Oct p63
 health and safety evaluation May p60
 JIT scheduling Mar p56
 maintenance on offshore platforms Apr p65
 manufacturing resource planning system Jul p44
 mathematical analysis Jul p44
 packed tower design Feb p50
 pinch technology Jul p44
 piping design Feb p50, Apr p65
 design Sep p59
 pressure vessel design benchmark tests Feb p50
 pressure vessel design Feb p50
 process industry modelling system Jul p44
 process modelling Apr p65
 process simulator Jul p44
 production schedule simulator Mar p56
 PSA simulator Feb p50
 pumping optimisation Jan p29
 scientific word processor Feb p50
 searching free text files Jan p23
 Speedup/Aspen plus interface Oct p63
 steam trap sizing Sep p58
 text analysis Feb p50
 text retrieval Mar p56
 toxic release modelling Apr p65
 workstation Jan p44
 Software & CAD at Eurochem '89 Apr p58, May p47, Jun p91
 Software Review, FLARESIM, thermal radiation from flares Nov p64
 JPIPE, a tool for piping design Jul p53
 MASSBAL process simulator Jun p127
 Software safety, call for action Dec p12
 Soils contaminated by petroleum: environmental and public health effects (B) Mar p64
 Solar energy for detoxification of water Sep p34
 Solid lubricants and ceramics May p29
 Solid/liquid separation club Mar p11
 Solids Handling News Feb p51, Apr p65, May p61, Jul p45, Aug p55, Oct p63, Nov p58
 Solids handling standards, European Mar p21
 Sparkler Filters, filter May p22
 Spirax Sarco, bellows seal valve Jul p45

check valve Sep p58
 steam trap sizing software Sep p58
 Spirax Sarco celebrates 21 years Aug p58
 Spirax Sarco, confronting Eurobump May p35
 Spirolflow UK, blenders Aug p48
 SSP Pumps, diaphragm pump Feb p51
 Stable doors (L) Jul p6
 Stahl R, explosion-proof crane Sep p59
 Static, pipes and balls (L) Jan p4
 Static mixer heat exchanger Sep p59
 Static shock (L) Jan p4
 Statiflow, static mixers Aug p48
 Steam ejector Sep p58
 Steam generator Apr p65
 Steam trap, Bestobell Jul p45
 Steel, multipurpose duplex Apr p66
 Stella-Meta, filter May p22
 Stirred reactors—facts or fiction? Apr p73
 Stockdale, filter May p22
 Stone & Webster win MHTGR nuclear contract Mar p61
 Stones in glass house (B) Jan p49
 Storage vessel, safety of liquid carbon dioxide Jun p29
 Stress corrosion cracking, what every chemical engineer should know about May p52, (L) Jul p4
 Stresswave Technology, acoustic emission technology Nov p29
 Structural composites, LINK programme Jul p10
 Sub-sea separation Jan p31
 Subsea highlights from Oslo May p25, (L) Jul p6
 Subsea three-phase meter on test May p29
 Substrate, polyurethane Jan p45
 Sulphuric acid recovery plant at ICI Aug p9
 Sulzer, evaporator contract with SCM Chemicals Oct p65
 evaporator for ICI Sep p62
 Sun Microsystems, CADAM Apr p65
 workstations range Jul p44
 workstation software May p60
 Super-critical CO_2 reduces solvent emissions Oct p33
 Superabsorbent polymer Nov p29
 Superconductors, high-temperature, for maglev Sep p34
 Surfactants in chemical/process engineering (B) Feb p55
 Swagelok, high temperature valve Jan p45
 Sweet grapes (L) May p6

T
 Taiwan, ICI PTA plant Aug p58
 Talking About Safety, the BP fires and explosion Aug p43
 displays made friendly Apr p49
 new thoughts on an old accident Feb p44
 quality and safety Jun p97, (L) Aug p4
 shooting down more chemical industry myths Dec p31
 total quality management (L) Aug p4
 Tamo, pressure safety valve Aug p27
 TASC Drives, variable speed drive Feb p50
 Teaching engineering applications Mar p50
 Techmart exhibition Jan p14
 Technical Database Service, thermodynamic database Sep p59
 chemical equilibrium software Dec p51
 Technical Sales International, mixer Mar p57
 Technology Review Jan p29, Feb p23, Mar p25, Apr p30, May p29, Jun p35, Jul p29, Aug p28, Sep p33, Oct p32, Nov p29, Dec p28
 Teesside, gas-fired power station Dec p54
 Teflon AF Aug p55
 Teflonyne, flue gas analysis Aug p56
 Tentime, contaminant mapping Sep p59
 Terminal Display Systems, colour graphics terminal Jan p44
 Texaco chooses Canary Wharf for new hq Nov p62
 Texaco's subsea multiphase meter May p29
 Texas Instrument, applications productivity tool Jan p44
 Text retrieval software Jan p23
 Thermal fluid systems Dec p41
 Thermocouple transducer cable Jan p44
 Thermodynamic database Sep p59
 Thermography Nov p59
 Thermography system Dec p52

Thorp, German deal helps safeguard second decade Sep p10
 Tippler, volumetric Dec p51
 TNO, electrostatic plastic heat exchanger for flue gas cleaning Nov p30
 TNT equivalence loss estimation Feb p36, (L) Jul p4, (L) Nov p6
 Too many controls May p59
 Topping cycle in fluidised bed combustion Dec p32
 Torvac Controls, furnace management system Nov p58
 Toshiba, SCADA Jan p44
 Total quality management Jun p97, (L) Aug p4, Aug p50
 Touch-screens for handheld computers Nov p13
 Toxic organic waste, electrochemical destruction Aug p28
 Toxic poll, early returns from Jul p17
 Toxic waste, coping with Nov p20, (L) Dec p6
 Toxic waste management and disposal, conference Sep p13
 Tracc heating Feb p50
 Transfrontier movement of waste, CEFIC position Aug p10
 Transmitter, intelligent Feb p51
 low pressure Jul p44
 smart, for mass flowmeter Mar p57
 Trident Consultants, dynamic modelling of slug flow May p60
 Trinity Consultants, toxic release modelling software Apr p65
 Troubled water—river, politics and pollution (B) Dec p55
 Trouvay & Cauvin, clamped joints Jan p45
 Tube joints, hygienic stainless Mar p56
 Tubes, ultra-clean Apr p66
 Turbines, gas, for the process industries Feb p16
 Turing omnibus—61 excursions in computer science (B) Dec p58
 Turnbull Control Systems, intelligent interface Oct p63
 Twenty years of single cell protein ventures Nov p44

U

UKAEA, contract research Jan p12
 launches new AEA Technology image Jul p10
 Ultrafilter opens factory in West Germany May p11
 Ultrafiltration, crossflow, pulsatile flow bring energy savings Jul p30
 Ultrafiltration membrane Dec p51
 Ultrafiltration system May p60
 Ultraviolet disinfection Apr p66
 UMIST to get Titans from Ardent Jul p47
 Underdogmanship Dec p49
 Underwater robots, DTI funds Feb p9
 Unintentional vacuums Sep p53
 Union Carbide, super-critical CO₂ as paint spray solvent Oct p33
 Unipol polypropylene process Apr p32
 Universal Conveyors, conveyor drum Nov p59
 University of Leeds Industrial Services, design environment May p60
 UOP, hydrogen for waste reduction Nov p30
 US Perspective, early returns from a toxic poll Jul p17
 future of chemical industry is garbage Nov p17, (L) Dec p4
 LA Law, proposition 65 Mar p17
 Octave Levenspiel Jan p16
 USSR, Alva-Laval oil-slop treatment plant for Jun p121

V

Vacuum cleaner Jul p45
 Vacuums, unintentional Sep p53
 Valmet Automation, distributed control system Mar p57
 Valve, ball, flush Jan p45
 block and bleed May p61
 butterfly, easy dismantling Apr p66
 check, disc and water Sep p58
 control, hygienic Dec p51
 control Feb p51
 diaphragm, biotechnology Mar p56
 disc, bottom outlet Jan p45

high temperature Jan p45
 needle Dec p51
 plug, eccentric Sep p58
 powder sampling May p61
 pressure safety, sizing for gas duty Aug p21
 pressure safety Aug p27
 rotating disc Jul p45
 stop, bellows seal Jul p45
 Valve actuators Feb p25
 Valve cover Nov p59
 Valve interlock Mar p57
 Valve sales, UK, some improvement Apr p15
 Valves, What future for the ball valve? May p37
 Van den Berg, mixers Aug p48
 Vapour monitor Jan p44
 Vapour-liquid equilibrium expert system Feb p24
 Variable speed drive Feb p50
 VC Filters, filter May p22
 Vector installs control computer at ICI Apr p69
 Venting requirements for weak dust-handling equipment Jan p18
 Vents, sizing, and assessing runaway reactions Aug p33
 Venturi devices, graphite Nov p59
 Video Review, NUS training—maximum training Sep p64
 Vokes, PTFE membrane filter Jan p45
 Volatilization technologies for removing organics from water (B) Nov p65
 Vulcan Engineering, PTFE joint sealant Jan p45

W

Waste audit Jun p26
 Waste disposal, environmental policy Oct p12
 Waste incineration at BASF Dec p10
 Waste incinerator for Seal Sands Jan p12
 Waste minimisation, price of progress Aug p3, (L) Sep p4
 Waste minimisation Jun p16
 Waste reduction using hydrogen Nov p30
 Water, high purity, using ozone and UV Sep p33
 Water, ultra-pure Oct p32
 Water costs Oct p10
 Water detoxification with solar energy Sep p34
 Water and dogma (L) Jan p4
 Water hammer Feb p14
 Water and Han Fei Tzu (L) Jan p4
 Water and pollution Sep p24
 Water prices (L) Mar p4
 Water privatisation (L) Jan p4
 Water purifier Apr p66
 Water and rights (L) Jan p4
 Water sampler Nov p58
 Water treatment, higea Jan p35
 nitrates, agrochemicals and all that May p42
 A J G Waters, crossflow membrane May p60
 Wave energy and desalination Feb p23
 Weighing, modular Apr p65
 proportioning and control system Nov p59
 Weight indicator, digital Feb p51
 Werner Rietschle, green vacuum pump Jun p36
 Westminster Log Mar p15, Jul p13, Oct p14, Dec p14
 What every chemical engineer should know about crevice corrosion Sep p41
 What every chemical engineer should know about stress corrosion cracking May p52, (L) Jul p4
 When drying, cool it Dec p21
 Whessoe Systems and Controls, pressure safety valve Aug p27
 Whiteley, Frank, CIA chairman Jan p14
 Wilkinson & Simpson, boiler water test Apr p65
 William Broady, pressure safety valve Aug p27
 William McGeogh, sequential events recorder Feb p51
 Wind power for Wales Sep p11
 Winn Valves, block and bleed valve May p61
 WISE works wonders with women Dec p13
 Women, HITECC success Feb p12
 Worcester Controls, half-inch actuator May p61
 Working in Belgium Nov p66
 Working in Europe Aug p62
 Workstation, computational fluid dynamics Feb p50
 Workstation range Jul p44
 World Energy Conference 1989 Nov p32
 World water prices Oct p10

Worthington Simpson, pump revamped Nov p59

Y

Yokogawa, distributed control system Sep p58
 sulphur analyser Mar p57
 Yokogawa Electrofact, magnetic flowmeter Nov p58
 Young academic views Jul p54
 Young Engineer for Britain Award Oct p13
 Young people survey Jul p9, (L) Sep p4
 Younger staff, how to get the best out of Mar p55

Author Index

* = Quoted in text

A

Aird, Robert Mar p50
 *Albrecht, R (B) Jun p129
 *Alexander, William (B) Dec p56
 Andow, Peter (B) Aug p61
 Ashworth, John Jul p20
 Aslarita, Mark (B) Dec p57

B

Baguley, Philip Aug p50
 Bailey, Colin Apr p3
 Baines, B D (L) Oct p4
 *Bajpai, A C (B) Oct p68
 Barber, Anthony Aug p62
 Barnes, Howard (B) Feb p55
 Beckett, Martin Mar p64
 Bell, Christopher May p42
 *Berry, John (B) Oct p68
 *Billet, R (B) Jul p53
 *Bird, Polly (B) Dec p57
 Bisio, Attilio Mar p17, Jul p17
 *Blumberg, R (B) Jan p49
 *Bolter, P A (B) Apr p77
 Bond, John (L) Aug p4
 Boniface, Angela Mar p21, Sep p24, Dec p21
 Bowen, Richard (B) Jun p129
 *Bradbury, J A A Sep p65
 Bradecki, Jerzy Sep p37
 Brearley, George (L) Apr p4
 Briggs, Tim Jan p51
 Broadribb, Mike Nov p64
 Butcher, Charles Jan p23, Feb p25, (B) p55, Mar p44, p64, Apr p32, Jul p33, Sep p17, Oct p17, Nov p37, Dec p17, p41, (B) p58

C

*Calabrese, E J (B) Mar p64
 Carey, Michael Oct p42
 *Carson, P A (B) Sep p65
 Chisti, Yusuf Feb p41
 Clarke, David Feb p14
 Cobbing, Madeleine Nov p23
 *Cogan, D (B) Jan p49
 Colehan, J E (B) Jun p4
 Coleman, Tony Jun p29
 Comer, Philip (L) Feb p4
 Cooke, Mike Jan p39
 Cooper, Paul (L) Mar p4
 Cox, John Aug p3, (L) Nov p6
 *Cussler, E L (B) Apr p77

D

Darton, Richard Aug p44
 Davey, Alan (L) Dec p4
 David, Trevor May p35
 Davies, Glyn Jun p111, (B) Nov p65
 *Dewdney, A Kee (B) Dec p58
 Dharmadhikari, Shashi Feb p16
 Donaldson, James (S) Sep p4
 Dougans, Jim Sep p67

E

Eddershaw, Basil Jun p97
 Edwards, Elwyn (B) Jun p129
 Ellul, Ivor Jun p39
 Etchells, Arthur W Oct p3
 Etheridge, Stephen Dec p3
 Evans, Alex Feb p56

F

Fathers, Phil Jun p131
 *Field, R (B) May p67
 Finch, Maurice Nov p20
 Finn, Tony (L) May p6
 *Fleming, J L Nov p65

Fowler, Ray Jan p35

G

Galloway, C R (L) Oct p4
 Gannaway, Peter (S) Oct p4
 Garside, Tom (B) May p67
 di Gesso, John Feb p36, Jul p4, Oct p52
 *Ginn, M E (B) Feb p55
 Glover, C J (L) Nov p6
 Glynn Jones, Tom Jan p43, Mar p55, Apr p63, Sep p57, Oct p59, Nov p56, (B) Dec p57
 Godber, Steve (L) Oct p4
 Goldbloom, Jerry (B) Dec p58
 Gray, Roger May p37
 Green, Andrew Apr p53

H

Haddock, R A (L) Mar p4
 Handscombe, Richard Jun p117
 Harris, Norman Apr p58, May p47, Jun p91
 Hart, Judith Dec p11
 van Haute, Robert May p42
 Hearn, Graham (L) Jan p4
 Hester, Kenneth (L) Jul p6
 Howard, P G (L) Jan p4
 Howell, John (B) Apr p77
 *Humble, Stephen (B) Oct p68
 Hutchison, D P (L) Jul p4

J

Jackson, Bob Dec p15
 *Jacques, J K (B) Apr p77
 Jenkins, John (B) Jul p53
 Johnsen, Hans (L) Jul p6
 Jones, Philip P (L) Mar p4

K

Kampelmacher, Erwin Sep p3
 *Kibblewhite, J F J (B) Aug p61
 *Kinnerley, David (B) Dec p55
 Kletz, Trevor (L) Jan p4, Feb p44, Aug p43, (L) Oct p4, Dec p31
 *Kostelci, P T (B) Mar p64
 Krishna, R (B) Jul p53

L

Laing, Martin May p45
 Lawrence, Gordon (L) Nov p6
 Leece, Norman (L) Mar p4
 *Lesourd, J-B (B) Apr p77
 Lewis, David J (L) Jul p4, (L) Nov p6
 Lloyd, Tony Mar p15, Jul p13, Oct p14, Dec p14
 Lunn, Geoff Jan p18

M

Macdonald, Ewan (B) Apr p77
 McNaughton, Kenneth J Nov p44
 Marshall, Vic (L) May p6
 Martin, Tom Mar p53, May p59, Sep p53
 Matthews, Peter May p44
 *Melvin, Alec (B) Aug p61
 *Miller, Ryle L (B) Feb p55
 Mitchell, Jim (L) Dec p4
 Moreau, David Jan p28, Feb p22, Mar p29, Apr p29, May p33, Jun p33, Jul p27, Aug p31, Sep p31, Oct p31, Nov p27, Dec p27, (B) p55
 Morley, Peter G Aug p21, Oct p47
 Morrison, Jim (S) Jun p127
 *Munford, C J (B) Sep p65
 *Mustoe, L R (B) Oct p68

N

Newton, David Jun p112
 Nienow, Alvin Apr p63
 *Norcliffe, Allan (B) Oct p68

O

O'Donnell, J P (L) Apr p4
 Olley, Robert (L) Jan p4, Jun p93, Jul p37
 O'Reilly, Alan Nov p54
 Ould, Robert (S) Oct p4

P

*Palgrave, Ron Nov p37
 Paul, Robin (B) May p67
 Penkett, Stuart Aug p14
 Perriman, Rodney (L) Feb p4
 *Peterson, Ivars (B) Dec p56
 Poole, Martin May p48
 Pounder, David Jun p3, (L) Sep p4
 Pounder, David (L) Dec p6

R

*Rautenback, R (B) Jun p129
 Redman, John Jan p40, Mar p33, p65, Apr p17, Jun p16, Jul p41, Oct p25 (B) p68, Dec p32, (B) p56
 Resen, Larry Jan p16, Nov p17
 Rhodes, Michael (L) May p6, (L) Jun p4
 Richardson, Jack (L) Jul p6
 Richmond, S (L) Mar p4
 Ridley, Tom May p35
 Rintoul, Gordon (L) Jul p6
 *Roberts, Royston M (B) Dec p58
 Robinson, Paul May p41
 *Rosenbach, William E (B) Dec p55
 *Rossi, Amadeo J (B) Oct p68
 Rowe, Peter Jun p105, Sep p55
 *Ruiz, J-M (B) Apr p77

S

Sagar, K J (L) Apr p4
 Sahastrabudhe, V D (B) Jun p4
 Salusbury, Tom Mar p13
 *Saunders, E A D Jul p53
 Sawyer, Paul Feb p30, Apr p43, Sep p47, Oct p45
 *Sayer, B A (B) Jun p129
 Scott, Ron (B) Sep p65
 *Shah, D O (B) Feb p55
 Shaw, Ray Mar p4
 Shirley, Christopher B (B) Dec p55
 Silman, Harold (S) Dec p4
 Slessor, Malcolm (L) Jan p4
 Smith, S J (L) Jul p6
 Solt, George (B) Nov p65
 Spedding, P L (L) Dec p4
 Sriam, M (B) Jun p4
 Stallworthy, Ernest Jul p51
 Steward, Peter May p25
 *Street, Arthur (B) Dec p56
 *Summers-Smith, J D (B) Mar p64
 Sutton, D (L) Sep p4
 Syms, Richard Sep p15

T

Tan, Reg Dec p7
 Tanner, Richard Jul p54
 *Taylor, Robert L (B) Dec p55
 Tharmalingam, Shan Aug p33
 Thomas, Brian Jan p14, Feb p12, Apr p15, May p14, Jun p13, Jul p10, Aug p12, Sep p11, Oct p11, Dec p14
 *Thorne, Paul (B) Dec p57
 Thornton, Robert (B) Jan p49, Nov p50
 *Tillman, David A (B) Oct p68
 Tilly, Wilfred (S) Dec p4
 Tilton, James N Oct p3
 Towler, Gavin May p48
 Townsend, Arthur (B) Sep p65
 Turner, Mervyn E D May p52, Sep p41, Dec p49, (B) p56

V

Varey, Peter Jan p31, Nov p32
 *Vick, Katherine M (B) Oct p68

W

*Walker, D (B) Oct p68
 Warde, Eric (L) Jul p4
 Warner, Sir Frederick May p50
 *Wason, D T (B) Feb p55
 Watson, Mark (L) Sep p4
 Weatherley, Lawrence Jan p49
 Whalley, Susan Apr p49
 Whiston, James Jun p97, Aug p4
 Whitby, David May p38
 Whitehouse, Rod May p37
 Wilcox, Bernard Apr p79
 Williams, Alan (B) Aug p61
 Wilson, Brian (L) Nov p6
 Woodfield, Mike (B) Oct p68
 Wright, Alan (L) Dec p6

Y

York, David Nov p66

Books for 1990 from the IChemE

The following books will be published during 1990; indicate the ones you're interested in, and send the whole page (or a photocopy) to us. We'll send you full details as soon as each book is published.

- | | |
|---|--------------------------|
| Handbook of relief system principles | <input type="checkbox"/> |
| Chemical engineering design case studies | <input type="checkbox"/> |
| Advances in separation processes* | <input type="checkbox"/> |
| Process plant commissioning | <input type="checkbox"/> |
| A user guide | |
| Fouling notebook | <input type="checkbox"/> |
| A practical guide to minimising fouling in heat exchangers | |
| Recommended test mixtures for distillation columns | <input type="checkbox"/> |
| Computer integrated process engineering* | <input type="checkbox"/> |
| Prevention of fires and explosions in dryers | <input type="checkbox"/> |
| A user guide | |
| Classification of hazardous locations | <input type="checkbox"/> |
| Flowsheeting for safety | <input type="checkbox"/> |
| Revised edition | |
| Effluent treatment and waste disposal* | <input type="checkbox"/> |
| Environment 1* | <input type="checkbox"/> |
| Occupational hygiene and environmental issues; control of chemical risks on both sides of the factory fence | |
| List of consultants 1990 | <input type="checkbox"/> |
| Communications skills pack | <input type="checkbox"/> |
| How to get the message across—and receive the answer loud and clear | |
| Bioprocess plant | <input type="checkbox"/> |
| The interface between research and manufacture in the UK | |

*books of conference proceedings

Please sent to:
Leigh Ayland
The Institution of Chemical Engineers
165-171 Railway Terrace
Rugby
Warwickshire CV21 3HQ, UK

IChemE Books



